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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/772,070	02/03/2004	Shinichi Nakano	60723 (72012)	4539	
21874 75	590 12/13/2006		EXAM	EXAMINER	
EDWARDS & ANGELL, LLP P.O. BOX 55874 BOSTON, MA 02205			LEUNG, JE	LEUNG, JENNIFER A	
			ART UNIT	PAPER NUMBER	
			1764		
			DATE MAILED: 12/13/2006	DATE MAILED: 12/13/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/772,070	NAKANO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jennifer A. Leung	1764				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 27 No.	Responsive to communication(s) filed on <u>27 November 2006</u> .					
2a) This action is FINAL . 2b) ☑ This	This action is FINAL . 2b) This action is non-final.					
3) Since this application is in condition for allowan	· · · · · · · · · · · · · · · · · · ·					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-8</u> is/are pending in the application.						
4a) Of the above claim(s) 1 and 8 is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>2-7</u> is/are rejected.						
7) Claim(s) is/are objected to.	•					
Application Papers						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 03 February 2004 is/are: a) accepted or b) dobjected to by the Examiner.						
• • • • • • • • • • • • • • • • • • • •						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail Da					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P					
Paper No(s)/Mail Date <u>2-3-04</u> .	6) Other:					

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DETAILED ACTION

Election/Restrictions

1. Applicant's election of claims 2-7 in the reply filed November 27, 2006 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)). Claims 1 and 8 are withdrawn from consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim.

Drawings

2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: 16 (see FIG. 1).

Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

3. Claim 1 is objected to because "rector" (line 1) should be changed to --reactor--.

Appropriate correction is required.

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Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 2-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 2, it is unclear as to the structural limitation applicant is attempting to recite in lines 2-10, beginning with, "... wherein a developer is manufactured by the steps of: ...", because said limitation is directed towards a process, and the various components and fluids recited in the claim are not considered part of an apparatus.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claim 2-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Kamiwano et al. (JP 11-047572).

Regarding claims 2 and 3, Kamiwano et al. (FIG. 1, 2; Abstract; Machine Translation) discloses an apparatus comprising: at least a reactor (vessel 1), a jet mechanism (nozzle 24), and a mechanism connecting therebetween (line 21, valve V6), wherein the reactor provided with at least a stirring mechanism (rotating body 8, agitator 13) and a mechanism for discharging the dissolved components (delivery port 5) has a developer material carrier comprising a plurality of

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meshes (screens 10 and 11). Please note that the process steps recited in lines 2-10 of claim 2 add no further patentable weight to the apparatus claims.

Regarding claim 4, the developer material carrier (comprising screens 10, 11 and tube 9) has a stirring mechanism 8 incorporated therein (see FIG. 1).

Instant claims 2-4 structurally read on the apparatus of Kamiwano et al.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 5-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kamiwano et al. (JP 11-047572) in view of Inoue (EP 0 526 699).

Kamiwano et al. is silent as to the developer material carrier 10,11,9 being rotatable, such that the carrier rotates together with the stirring mechanism 8,13; rotates in reverse relative to the rotation direction of the stirring mechanism 8,13; or functions as a stirring mechanism. Instead, the developer material carrier 10,11,9 of Kamiwano et al. is fixed.

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Inoue teaches a tank 6 containing a developer material carrier 9, wherein the carrier 9 is fixed (see FIG. 1; column 3, line 14 to column 4, line 44). Additionally, Inoue teaches that instead of a fixed carrier, the carrier 24 (see FIG. 4; column 4, line 55 to column 5, line 40) may be rotatable, such that the carrier 24 is capable of rotating together with the stirring mechanism 21,23; capable of rotating in reverse relative to the rotation direction of the stirring mechanism 21,23 (as evidenced by the provision of the carrier 24 and the stirring mechanism 21,23 on two separate shafts 22,25; see rotation arrows in FIG. 4); or functions as a stirring mechanism.

It would have been obvious for one of ordinary skill in the art at the time the invention was made to configure the developer material carrier in the apparatus of Kamiwano et al. to be rotatable, as claimed, on the basis of suitability for the intended use thereof, because the provision of a rotatable carrier in addition to a rotatable stirring mechanism allows for increased shearing, and the material is thereby processed uniformly and fast, as taught by Inoue (see column 5, lines 11-25).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer A. Leung whose telephone number is (571) 272-1449. The examiner can normally be reached on 9:30 am - 5:30 pm Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn A. Caldarola can be reached on (571) 272-1444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jennifer A. Leung December 6, 2006

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